Matthew Finger

Web Developer

As a newer developer, one of the first things one notices is how diverse, complex, and dynamic the world of IoT is; the "right" solution seems to be a function of not only the individual problem at hand, but also a continuous succession of frameworks, tech stacks, and industry conventions. Hence, it's apparent that to develop good software, one must offer sufficient flexibility, creativity, and communicability to be able to meet the needs and expectations of clients and end users. Therefore, I make sure to crank out web solutions prioritizing clean code, clear documentation and communication, functional UX, scalability, and maintainability. Give me a call or shoot me an email if you think I could be a useful addition to your dev team!

Technology Proficiencies

Currently, I've taught myself the following technologies well enough to comfortably claim proficiency, although there are many other technologies I know the basics of, and I'm willing and eager to become proficient in other skills.

HTML5 (HTML, CSS & JS)

HTML5, being the most fundamental front-end web framework, naturally I'm well-versed in it. I can:
- Create static websites based on a given design.
- Implement good CSS styling practices, taking advantage of the cascade.
- Use JavaScript to add interactivity and functionality by:
    - Interacting with the HTML DOM.
    - Writing Fetch Requests using AJAX.
    - Utilizing promises and async/await to optimize performance.
- Implementing a working understanding of lexical scoping, closures, and object-oriented code.

Node JS / ExpressJS

Node JS with Express JS is my personal favorite technology for server-side development. Using Node, I am able to:
- Use the "http", "fs", "path", and other modules to setup both static and dynamic http servers, read/write streams, etc.
- Utilize ExpressJS for rapid back-end development
- Maintain packages with both npm and yarn

Contact

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Location:
Kenosha, WI USA

Education

Indian Trail High School
2014 - 2018
High School Diploma

College of Lake County
2019 - 2021 or 2022
AAS/EET (Associates in Applied Sciences/Electrical Engineering Transfer)

Milwaukee School of Engineering
2021 or 2022 - 2024 or 2025
(Already Accepted)
Electrical Engineering (transfer) & Computer Engineering

PHP / LAMP Stack

I have a solid understanding of PHP, and how to use it for web development with Apache and MySQL on (Debian-based) Linux systems. Some specific concepts of the LAMP stack in which I'm fully versed include:

- Super-globals and other session variables, such as $_SESSION, $_POST, and others
- Basic SQL data queries, transactions, and creation/connection of a MySQL database
- Implementation of basic HTTP API's (REST & GraphQL)
- File read/write operations

Python 3

I have used Python 2, although the vast majority of my experience with the robust, versatile programming language lies with Python 3. This is one area where I know the basics of many frameworks, such as MongoDB, Flask, Django, and Pandas, but I definitely have a solid, working knowledge of:

- Classes and object-oriented Python
- Tkinter / Tcl for creating desktop software/GUI's
- Other native modules such as "datetime", "time", and "os"
- Package Management using pip, as well as working in virtual environments using the "venv" package.

Linux

Now, I know I already listed Linux in the LAMP stack section, although I'd like to include that I've been using Linux for the majority of my life. I know how to do all sorts of stuff on Linux systems, especially when they're Debian-based, such as:

- Schedule routine tasks using the 'cron' package
- Install, update, and maintain packages using apt
- Create new users, modify privileges, and manage ssh access to a system
- Write Shell Scripts, create custom alias' for commands, and log results into files
- Utilize top, netstat, and ifconfig/net-tools to administer/monitor/troubleshoot ongoing processes

ReactJS/Redux

Though ReactJS and Redux are tools I haven't had as much experience with as other technologies on this resume, I know the basic concepts and principles and learning more about ReactJS, Redux, and the MERN Stack is my current focus. I can:

- Implement JSX, react components, and use state-lifting techniques to generate dynamic GUI's.
- Implement Redux, Redux Toolkit, and several immutability libraries to effectively design redux stores such that they are easily used, maintained, and scaled
- Deploy React using build & including in a server (i.e. Express, Django, etc)

MongoDB / NoSQL

Given the versatility and flexibility of NoSQL, knowledge of how to use the biggest NoSQL Database System, MongoDB, is a must for any developer today. I can:

- Design collections and schemes, and integrate them into full-stack projects
- Manage both local databases as well as remote platforms such as Mongo Atlas™
- Full knowledge and understanding of NoSQL and BSON
- Integration with Django using the Djongo plugin

SQL (PostgreSQL, MySQL, SQLite)

One of the most basic, conventional, and widely used technologies, SQL is a must know for any developer. I have experience with many modern SQL databases, such as MS Access, Oracle Database, and MariaDB, however most of my experience is using PostgreSQL, MySQL, and SQLite. In PostgreSQL and MySQL, I can:

- Install/Setup database software on Linux systems, including creating roles/users & PHPMyAdmin/pgAdmin
- Integrate with NodeJS & Python frameworks (ie. Django, Express, Flask)
- Use CLI to administer databases (both remote and local)

WordPress

One of the most intuitive CMS's for non-technical users, I find skills relating to WordPress a must have in order to deliver websites to customers that they will be able to troubleshoot and manage on their own. I can:

- Design and update dynamic themes
- Implement styling both throughout the site as well as on a per page basis
- Make full use of add-ons, including the ability to implement client-side JS and CSS to customize add-on functionality even further
- Implement pages based on mock-ups from a graphical editor such as Photoshop™, Illustrator™, GIMP and Inkscape
- Integrate MySQL database to improve functionality

Graphical Design

In addition to the ability to base websites off mockups, I also can create mockups, with a range of skills including:

- Vector Graphics editors, such as Inkscape and Adobe Illustrator™
- Bitmap/Photo editors such as GIMP and Adobe Photoshop™
- Screen capture tools (photo and video) such as Camtasia, Active Presenter, and Snagit
- Drawing/Animation tools like Krita, MyPaint, and Pencil2D
- 3d modeling software (Maya, Autodesk Fusion, AutoCAD, and Blender)

Experience

Technical Consultation and Development Intern

Sep. 2020 to Current | Democracy Reform Ranking Project

https://thedemocracysurvey.org/

The responsibilities of my position range widely, mostly involving the administration of the organization's website, consultation of major technological changes throughout the organization, and researching/designing ideal solutions to technical problems, as well as keeping an eye out for areas of improvement and expansion.

Skills Used:
- WordPress
- JavaScript (Client-side)
- PHP
- CSS
- MySQL

Website Developer

May 2020 to June 2020 | Ted Finger eLearning Specialist

http://tedfinger.me

Ultimately, the goal of this position was to create a more personalized page from which an independent freelance worker could market himself. To summarize, the development of an interface for modals as well as an admin page to monitor web traffic were the two main areas of focus for this page.

Skills Used:
- NodeJS/Express
- React
- MongoDB Atlas
- Bootstrap/CSS
- JavaScript (Client-side)
- HTML
- VPS on Linode®

Other relevant information

For brevity, I won't go into all the details of my background in these areas, but I do know at least the basic idea of all of them, and, as mentioned before, I am definitely open to getting experience in more skills. If necessary, I can implement these into my solutions.

- Java/Kotlin
- C++/C
- VueJS, Angular
- Ruby/Ruby on Rails
- Dart/Flutter
- Golang

- TypeScript,, Coffee Script
- Wx, Qt
- Microsoft Access, SQLite
- Macros, forms, and other advanced areas of MS Office/VBA